

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/932,680	08/20/2001	Chrong-Jung Lin	TS1998-850/852B	5633
75	90 06/03/2002			
George O. Saile			EXAMINER	
20 McIntosh Drive			PIZARRO CRESPO, MARCOS D	
Poughkeepsie, l	NY 12603			
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 06/03/2002	</td

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Art Unit Marcos D. Pizarro-Crespo 2814 Art Unit Marcos D. Pizarro-Crespo Artos D. Pizarro-	*						
Examiner The MAILING DATE of this communication appears on the cover sheet with the correspondenc address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of FTHIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPR 1.38(b). In no event, however, may a reply be timely filled under 50°C (MONTTS) from the mailing date of the communication. If NO period for reply is expelled above, the maximum statulory period will apply and will expire SIX (6) MONTHS from the mailing date of the communication. If NO period for reply is specified above, the maximum statulory period will apply and will expire SIX (6) MONTHS from the mailing date of the communication. Failure to price of the price of the period of the price of the period will apply and will expire SIX (6) MONTHS from the mailing date of the communication. Failure to price of the price of the period will apply and will expire SIX (6) MONTHS from the mailing date of the communication, even if timely filed, may reduce any semined altered term adjustment. See 37 CPR 1.704(b). Status 1) Responsive to communication(s) filed on 20 August 2001. 2a) This action is FINAL. 2b) This action is reply and will experience of the price of the period of the price of the mailing date of this communication. 4j) Collaring (22-37) (giver pending in the application. 5j) Collaring (22-37) (giver pending in the application. 5j) Collaring (22-37) (giver pending in the application. 5j) The proposed data of the price			Application No.	Applicant(s)			
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1) Responsive to communication(s) filed on 20 August 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 29-31 ⅓ /are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 29-31 ⅙ /are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a □ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11)□ The proposed drawing correction filed on is: a □ approved b⟩□ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12)□ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b⟩□ Some* c⟩□ None of: 1.□ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14)□ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a)□ The translation of the foreign language provisional application has been received.	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 						
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Attachment(s)	15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
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1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other:	2) Notice	of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P				

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/932,680 (Non-Final Rejection) Page 2

Art Unit: 2814

Attorney's Docket Number: TS1998-850/852B

Filing Date: 8/20/2001

Claimed Priority Date: 11/1/1999 (Divisional 09/431,236)

Applicant(s): Lin et al.

Examiner: Marcos D. Pizarro-Crespo

DETAILED ACTION

This Office action responds to the application (Ser. No. 09/932,680) filed on 8/20/2001.

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 29-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakakibara (US 5691560).
- 4. Sakakibara shows (see, *e.g.*, fig. 1) all aspects of the instant invention including a stacked gate having a doubly diffused drain (DDD) comprising:
 - > a junction having a lightly doped profile 4, 5
 - a surface region having a heavily doped profile 2, 3

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- 5. Regarding claim 30, Sakakibara shows the lightly doped profile **4**, **5** comprising phosphorous ions at a dosage level between about 1x10¹³ to 5x10¹³ atoms/cm² (col.10/II.23-28).
- 6. Regarding claim 31, Sakakibara shows the heavily doped profile **2**, **3** comprising arsenic ions at a dosage level between about 1x10¹⁵ to 5x10¹⁵ atoms/cm² (col.10/II.19-23).

Conclusion

- 7. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814 Fax Center located in Crystal Plaza 4, room 3C23. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (703) 308-7722 or -7724. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos D. Pizarro-Crespo at (703) 308-6558 and between the hours of 9:00 AM to 7:30 PM (Eastern Standard Time) Monday through Thursday or by e-mail via Marcos.Pizarro@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (703) 306-2794.
- 9. Any inquiry of a general nature or relating to the status of this application should be directed to the **Group 2800 Receptionist** at **(703) 308-0956**.

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10. The following list is the Examiner's field of search for the present Office Action:

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Field of Search	Date	
U.S. Class / Subclass(es): 257 /314-326,336,344,345,408 438 /163,257-267	5/25/2002	
Other Documentation:		
Electronic Database(s): EAST (USPAT, EPO, JPO)	5/25/2002	

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MDP/mdp May 25, 2002 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800